Features

- High Output Voltage
- Universal AC Input **Constant Current Operation**

LED DRIVER

- **Active Power Factor Correction** IP67 Design for Indoor and Outdoor Use
- **Compact Size**

Digital PWM and Analogue Voltage Dimming

Selection Guide Nominal Efficiency Part Rated **Output Voltage** Rated Number Voltage Voltage Current Range typ. (VAC) (V) (VDC) (mA) (%) RACD100-700A 100-277 142 100-142 700 91 71 RACD100-1400A 100-277 50-71 1400 91

Specifications (measured at 240V AC and 25°C ambient temperature)

2/Input Voltage Range		90-305 VAC or 127-430VDC
Input Frequency Range		47-63Hz
Power Factor	Full Load, 115VAC	>0.98
	Full Load, 230VAC	>0.94
	70% Load	>0.90
DC Dimming	Open = 100%	DC 1-10V
PWM Dimming	Open = 100%	Duty 10% - 100%
	Freq.	500Hz - 3000Hz
	Voltage	Hi=10V, Low=0V
THD	Full Load, 115VAC	8% max.
	Full Load, 230VAC	15% max.
	Full Load, 277VAC	17% max.
AC Current	115VAC	1.2A max.
	230VAC	0.6A max.
Input/Output Isolation		3.75kVAC / 1minute
Input/Case Isolation		1.8kVAC / 1minute
Output/Case Isolation		0.5kVAC / 1 minute
Leakage Current	230VAC	<0.75mA
Inrush Current	230VAC	50A
(Class C Circuit Breaker is recon	nmended)	
Voltage Tolerance		-1% to 5%
Current Tolerance		±5%
Start-up Time (@ Full Load)	230VAC	2s
Ripple & Noise	142V Version	1000mV max.
(@20MHz bandwidth)	71V Version	500mV max.
Over Voltage	110 - 140% Rated Voltage	Shutdown Mode
Short Circuit Protection		Hiccup Mode
Over Temperature Protection		100°C ±10°C
Operation Temperature	without derating	-30°C to +55°C (see graph)
Operation Humidity		20%-90% RH Non-Condensing
Storage Temperature		-40°C to +80°C
Storage Humidity		10%-95% RH
Vibration		10-500Hz, 2G, 60 Min. along X, Y and Z
IP Rating		IP67
Safety Standards	UL/cUL LED Lighting Safety	UL8750
	CE LVD Directive, Safety	EN61347-2-13
	· -	103631 001 IEC61347-2-13
	· · · · ·	continued on next page

LIGHTLINE AC/DC-Converter with 5 year Warranty



100 Watt Single Output



Derating-Graph

(Ambient Temperature)



Refer to Application Notes

RACD100-A Series

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en consent. A safety-critical application is defined as an application where a failure of a RECOM product may reasonably be expected to endanger or cause loss of life, inflict bodily harm or damage property. The buyer
nall indemnify and hold harmless RECOM, its affiliated companies and its representatives against any damage claims in connection with the unauthorized use of RECOM products in such safety-critical applications.

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Specifications (meas	ured at 240V AC and 25°C ambient temperature)	
EMC Standards	EMC Compatibility	EN55015
		FCC, Part 15
	Harmonic Current	EN61000-3-2 Class C
		EN61000-3-3
	EMC Immunity	EN61000-4-2, 3, 4, 5, 6, 11
		EN61547
Dimension		177*57*37mm
Weight		750g
Design Lifetime		70 x 10 ³ hours max.
MTBF	using MIL-HDBK-217F (25°C)	200 x 10 ³ hours min.

Note:

All LED Drivers may not be used without a load. They must be switched on the primary side only. Noncompliance may damage the LED or reduce its lifetime.

Derating Curves





277VAC, 10hm 90° phase angle **DC Voltage Dimming Curve**



lout (%)

PWM Dimming Curve



RACD100-A

Circuit Breaker Current 25A

18

14

31

17

36

Package	Style	and	Pinning	



LIGHTLINE AC/DC-Converter

Maximum Number of LED drivers per circuit breakers Condition **Circuit Breaker**

В

С

Тур 10A 16A 20A 115VAC, 10hm С 7 12 14 90° phase angle В 6 10 12 230VAC, 10hm 90° phase angle С 13 22 24

7

15

11

25

14

29